## Nucleotide and Amino Acid Sequence of AIM-I

-51 -16	GGCACGAGCGGCTGCCTGACTTACAGCAGTCAGACTCTGACAGGTTCATGGCTATG -+	8
9	ATGGAGGTCCAGGGGGGACCCAGCCTGGGACAGACCTGCGTGCTGATCGTGATCTTCACA  TACCTCCAGGTCCCCCCTGGGTCGGACCCTGTCTGGACGCACGACTAGCACTAGAAGTGT  M E V Q G G P S L G Q T C V L I V I F T	68 23
69 24	GTGCTCCTGCAGTCTCTCTGTGTGGCTGTAACTTACGTGTACTTTACCAACGAGCTGAAG  CACGAGGACGTCAGAGAGACACACCGACATTGAATGCACATGAAATGGTTGCTCGACTTC  V L L Q S L C V A V T Y V Y F T N E L K	128 43
129 44	CAGATGCAGGACAAGTACTCCAAAAGTGGCATTGCTTGTTTCTTAAAAGAAGATGACAGT GTCTACGTCCTGTTCATGAGGTTTTCACCGTAACGAACAAAGAATTTTCTTCTACTGTCA Q M Q D K Y S K S G I A C F L K E D D S	188 63
189 64	TATTGGGACCCCAATGACGAAGAGAGTATGAACAGCCCCTGCTGGCAAGTCAAGTGGCAA  ATAACCCTGGGGTTACTGCTTCTCTCATACTTGTCGGGGACGACCGTTCAGTTCACCGTT  Y W D P N D E E S M N S P C W Q V K W Q	248 83
249 84	CTCCGTCAGCTCGTTAGAAAGATGATTTTGAGAACCTCTGAGGAAACCATTTCTACAGTT -++ GAGGCAGTCGAGCAATCTTTCTACTAAAACTCTTTGGAGACTCCTTTGGTAAAGATGTCAA L R Q L V R K M I L R T S E E T I S T V	308 103
309 104	CAAGAAAAGCAACAAAATATTTCTCCCCTAGTGAGAGAAAGAGGTCCTCAGAGAGTAGCA -++ GTTCTTTTCGTTGTTTTTATAAAGAGGGGATCACTCTCTTTCTCCAGGAGTCTCTCATCGT Q E K Q Q N I S P L V R E R G P Q R V A	368 123
369 124	GCTCACATAACTGGGACCAGAGGAAGAAGCAACACATTGTCTTCTCCAAACTCCAAGAAT CGAGTGTATTGACCCTGGTCTCCTTCTTCGTTGTGTAACAGAAGAGGGTTTGAGGTTCTTA A H I T G T R G R S N T L S S P N S K N	428 143
429 144	GAAAAGGCTCTGGGCCGCAAAATAAACTCCTGGGAATCATCAAGGAGTGGGCATTCATT	488 163

489	CTGAGCAACTTGCACTTGAGGAATGGTGAACTGGTCATCCATGAAAAAGGGTTTTACTAC	548
164	GACTCGTTGAACGTGAACTCCTTACCACTTGACCAGTAGGTACTTTTTCCCAAAATGATG L S N L H L R N G E L V I H E K G F Y Y	183
	ATCTATTCCCAAACATACTTTCGATTTCAGGAGGAAATAAAAGAAAACACAAAGAACGAC	100
549	TAGATAAGGGTTTGTATGAAAGCTAAAGTCCTCCTTTATTTTCTTTTGTGTTTCTTGCTG	608
184	I Y S Q T 'Y F R F Q E E I K E N T K N D	203
609	AAACAAATGGTCCAATATATTTACAAATACACAAGTTATCCTGACCCTATATTGTTGATG	668
204	TTTGTTTACCAGGTTATATAAATGTTTATGTGTTCAATAGGACTGGGATATAACAACTAC K Q M V Q Y I Y K Y T S Y P D P I L L M	223
669	AAAAGTGCTAGAAATAGTTGTTGGTCTAAAGATGCAGAATATGGACTCTATTCCATCTAT	728
224	TTTTCACGATCTTTATCAACAACCAGATTTCTACGTCTTATACCTGAGATAAGGTAGATA K S A R N S C W S K D A E Y G L Y S I Y	243
	CAAGGGGGAATATTTGAGCTTAAGGAAAATGACAGAATTTTTGTTTCTGTAACAAATGAG	
729	GTTCCCCCTTATAAACTCGAATTCCTTTTACTGTCTTAAAAACAAAGACATTGTTTACTC	788
244	Q G G I F E L K E N D R I F V S V T N E	263
789	CACTTGATAGACATGGACCATGAAGCCAGTTTTTTCGGGGCCTTTTTAGTTGGCTAACTG -+	848
264	H L I D M D H E A S F F G A F L V G	281
849	ACCTGGAAAGAAAAAGCAATAACCTCAAAGTGACTATTCAGTTTTCAGGATGATACACTA TGGACCTTTCTTTTCGTTATTGGAGTTTCACTGATAAGTCAAAAGTCCTACTATGTGAT	908
909	TGAAGATGTTTCAAAAAATCTGACCAAAACAAACAAACAGAAAACAGAAAACAGAAAAAAA	968
000	CTCTATGCAATCTGAGTAGAGCAGCCACAACCAAAAAATTCTACAACACACAC	7.000
969	GAGATACGTTAGACTCATCTCGTCGGTGTTGGTTTTTTAAGATGTTGTGTGTG	1028
1029	AAAGTGACTCACTTATCCCAAGAAAATGAAATTGCTGAAAGATCTTTCAGGACTCTACCT	1088
1023	TTTCACTGAGTGAATAGGGTTCTTTTACTTTAACGACTTTCTAGAAAGTCCTGAGATGGA	1000
1089	CATATCAGTTTGCTAGCAGAAATCTAGAAGACTGTCAGCTTCCAAACATTAATGCAATGG	1148
	GTATAGTCAAACGATCGTCTTTAGATCTTCTGACAGTCGAAGGTTTGTAATTACGTTACC	

1149	TTAACATCTTCTGTCTTTATAATCTACTCCTTGTAAAGACTGTAGAAGAAAGCGCAACAA AATTGTAGAAGACAGAAATATTAGATGAGGAACATTTCTGACATCTTCTTTCGCGTTGTT			
1209	TCCATCTCTCAAGTAGTGTATCACAGTAGTAGCCTCCAGGTTTCCTTAAGGGACAACATC ++ AGGTAGAGAGTTCATCACATAGTGTCATCATCGGAGGTCCAAAGGAATTCCCTGTTGTAG	1268		
1269	CTTAAGTCAAAAGAGAGAGAGAGGCACCACTAAAAGATCGCAGTTTGCCTGGTGCAGTGGC GAATTCAGTTTTCTCTCTCTCTCCGTGGTGATTTTCTAGCGTCAAACGGACCACGTCACCG	1328		
1329	TCACACCTGTAATCCCAACATTTTGGGAACCCAAGGTGGGTAGATCACGAGATCAAGAGA AGTGTGGACATTAGGGTTGTAAAACCCTTGGGTTCCACCCATCTAGTGCTCTAGTTCTCT	1388		
1389	TCAAGACCATAGTGACCAACATAGTGAAACCCCCATCTCTACTGAAAGTGCAAAAATTAGC -+	1448		
1449	TGGGTGTTGTGGCACATGCCTGTAGTCCCAGCTACTTGAGAGGCTGAGGCAGAGAATCG	1508		
1509	TTTGAACCCGGGAGGCAGAGGTTGCAGTGTGGTGAGATCATGCCACTACACTCCAGCCTG	1568		
1569	GCGACAGAGCGAGACTTGGTTTC -+			

FIG.1C

## Alignment of AIM-I to Human Fas Ligand (Similarity = 48.594 % Identity = 22.892 %)

4	MEVQGGPSLGQTCVLIVIFTVLLQSLCVAVTYV	36
15	<pre>:: ::.:: :  </pre>	64
37	YFTNELKQMQDKYSKSGIACFLKEDDSYWDPNDEESMNSPCWQVKWQLRQ	86
65	:.  :: .  :  : : ::: : ::  plplpplkkrgnhstglcllvmffmvlvalvglglgmfql.fhlqk	109
87	LVRKMILRTSEETISTVQEKQQNISPLVRERGPQRVAAHITGTRGRSNTL	136
110	: .: .  :     : .   .  :   :  . elaelrestsqmhtasslekqighpspppekkelrkvahltgksnsr	156
137	SSPNSKNEKALGRKINSWESSRSGHSFLSNLHLRNGELVIHEKGFYYIYS	186
157	::.   :  .: :   :  ::   smplewedtygivllsgvkykkgglvinetglyfvys	193
187	QTYFRFQEEIKENTKNDKQMVQYIYKYTS.YPDPILLMKSARNSCWSKDA	235
194	: : :: :    ::::: .:. : kvyfrgqscnnlplshkvymrnskypqdlvmmegkmmsycttgq	237
236	EYGLYSIYQGGIFELKENDRIFVSVTNEHLIDMDHEASFFGAFLV 280	
238	::      :: :  ::: . .:  ::::    : : mwar.ssylgavfnltsadhlyvnvselslvnfeesqtffglykl 281	

FIG.2

## Alignment Report of AIM-I, hFas Ligand, TNF- $\alpha$ and TNF- $\beta$ by Clustal Method with PAM250 Residue Weight Table

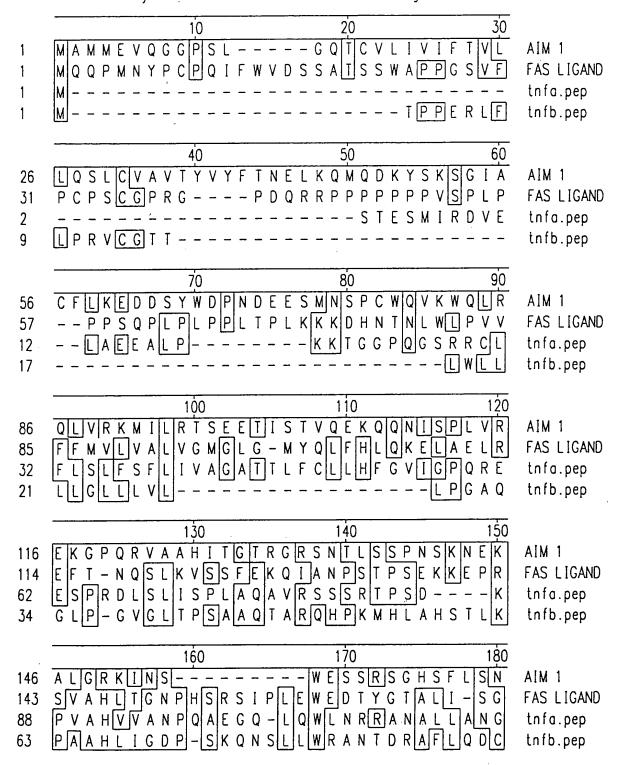
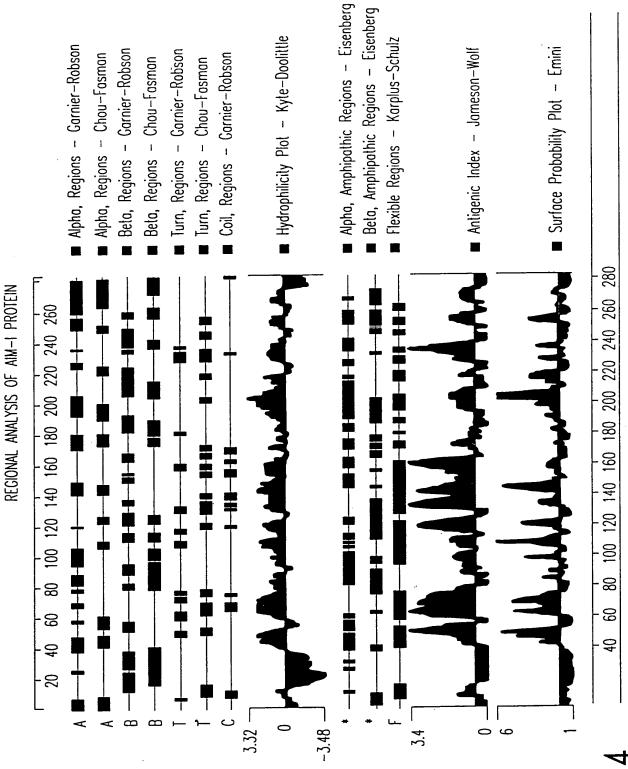


FIG.3A

	190	200	210	
167	L H L R N G K L V I H E K G F	YYIYSQITYF RI	FQEEI	AIM 1
172	VK YK K GGL V INETGL			FÁS LIGAND
117	VELRDNOLV PSEGL			tnfa.pep
92	F SLSNN SLLV PT SGT	YFVYSQVJVFJS	CKAYS	tnfb.pep
	•			
	220	230	240	
·197	KENTKNDKQMVQYIY		LILMKS	AIM 1
		MRNSKYPEDL		FAS LIGAND
202	N Q P L N H K V Y	JWKW 2 KILLIC D F	VIL WIE E	
146	PSTHVLLTHTIS	RIAVSIYLOIKIVI	NLLSA	tnfa.pep
122	PKAPSSPLYLAHEVQ	L F S S Q Y P F H V	PLLSS	tnfb.pep
	· —	•		
	250	260	270	
226	ARNSCWSKDAEYGL-	YSIYQG		AIM 1
	ANN SCH SKUALITUL			FAS LIGAND
226		QIWAHSSYLG		
173	IKSPCQRETPEGAEA	· · · · · · · · · · · · · · · · · · ·		tnfa.pep
152	Q[K]MV[Y]P GL[Q]	EPWLHSMYHG	A A F Q L	tnfb.pep
	280	290	300	
251	KENDRIFVSVTNEHL	1		AIM 1
	TSA DHLYVNIS Q L SL	IN CICE ON TIE		FAS LIGAND
250				
203	EKGDRLSAELNRPDY			tnfa.pep
176	TQGDQLSTRTDGIPH	LIV L S PS - TVF	FGAF -	tnfb.pep
280	VIGI-			AIM 1
				FAS LIGAND
278	- K			
232	- A L	•		tnfa.pep
204	-[AL]			tnfb.pep

Decoration 'Decoration #1': Box residues that match the Consensus within 2 distance units.

FIG.3B



F16.4